

USCS CLASSES

GW GRAVEL, WELL GRADED, LITTLE OR NO FINES

GP GRAVEL, POORLY GRADED, LITTLE OR NO FINES

GM SILTY GRAVEL

GC CLAYEY GRAVEL

SW SAND, WELL GRADED, LITTLE OR NO FINES

SP SAND, POORLY GRADED, LITTLE OR NO FINES

SP-SM SAND, POORLY GRADED WITH SILT

SM SILTY SAND

SC CLAYEY SAND

CL-ML SILTY CLAY

CL LEAN CLAY

CH FAT CLAY

OL ORGANIC SILT OR CLAY, LOW PLASTICITY

OH ORGANIC SILT OR CLAY WITH HIGH PLASTICITY

PT PEAT

SYMBOLS AND TEST RESULTS

ц LIQUID LIMIT

PI PLASTICITY INDEX

NP NON-PLASTIC

oc ORGANIC CONTENT (%)

MC MOISTURE CONTENT (%)

kv LABORATORY VERTICAL HYDRAULIC CONDUCTIVITY (cm/sec)

Kh FIELD HORIZONTAL HYDRAULIC CONDUCTIVITY (cm/sec)

0/30/42/28 PERCENT GRAVEL, SAND, SILT, AND CLAY

0/87/13 PERCENT GRAVEL, SAND, AND SILT PLUS CLAY

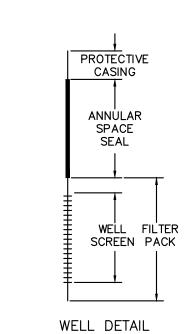
(929.16) GROUNDWATER ELEVATION ON 4/4/11

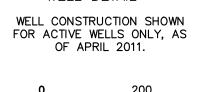
(929.16) GROUNDWATER ELEVATION ON 4/4 (FEET ABOVE MEAN SEA LEVEL)

■ WATER TABLE (SEE NOTE 5)

— CONTACT BETWEEN MAJOR GEOLOGIC UNITS (DASHED WHERE INFERRED)

— BEDROCK SURFACE (SEE NOTE 6)





HORIZONTAL SCALE: 1" = 200'
VERTICAL SCALE: 1" = 20'
VERTICAL EXAGGERATION = 10X



- THE DRAWING WAS DERIVED FROM SCS ENGINEERS DECEMBER 2010 GLACIER RIDGE SOUTHEAST EXPANSION FEASIBILITY REPORT WITH THE FOLLOWING MODIFICATIONS: PROPOSED FINAL GRADES AND HIGH WATER TABLE MAP GROUNDWATER SURFACE.
- LINES CORRELATING STRATA ARE BASED ON INTERPOLATION BETWEEN BORINGS AND MAY NOT REPRESENT ACTUAL SUBSURFACE CONDITIONS.
- 3. FOR A DETAILED DESCRIPTION OF SUBSURFACE CONDITIONS AT INDIVIDUAL BORINGS OR COMPLETE MONITORING WELL CONSTRUCTION INFORMATION, REFER TO THE BORING AND MONITORING WELL INFORMATION APPENDIX.
- 4. ELEVATIONS ARE SHOWN IN REFERENCE TO THE USGS MEAN SEA LEVEL
- 5. WATER TABLE SURFACE SHOWN BETWEEN BORINGS BASED ON THE HIGH WATER TABLE MAP SHEET 4 OF 24, (APRIL 4, 2011).
- 6. THE BEDROCK SURFACE ILLUSTRATED ON THE CROSS SECTIONS IS INFERRED AND IS BASED ON THE TOP OF BEDROCK MAP, SHEET 18 OF 24.
- 7. MW408, P408A AND P401D WATER LEVELS WERE NOT MEASURED DURING APRIL 2011. RECORDED WATER LEVELS ARE THEREFORE FROM APRIL 9,
- 8. THE EXISTING GROUND SURFACE AND PROPOSED FINAL GRADES OF THE VERTICAL EXPANSION ARE BASED ON INFORMATION PRESENTED ON SHEETS
- 9. THE WATER TABLE SURFACE SHOWN ON THE CROSS SECTION IS BASED ON CONDITIONS PRIOR TO THE INSTALLATION OF THE GRADIENT CONTROL AND/OR UNDERDRAIN SYSTEMS OR FEATURES UNDER THE SOUTHEAST EXPANSION. THE GROUNDWATER GRADIENT CONTROL SYSTEM WAS OPERATIONAL UNDER THE SOUTH EXPANSION PHASES 1A, 2A, AND 3A AT THE TIME OF THE DEPICTED WATER LEVELS. THE WATER LEVEL MEASURED AT GRADIENT CONTROL MONITORING POINT GCM—1 UNDER PHASE 1A OF THE SOUTH EXPANSION WAS 930.56 FEET ABOVE MEAN SEA LEVEL (AMSL) IN APRIL 2011. THE GROUNDWATER ELEVATION AT MONITORING POINT GCM—1 HAS AVERAGED 929.9 FEET AMSL FROM SEPTEMBER 2006 THROUGH

GENERAL DESCRIPTION OF MAJOR GEOLOGIC UNITS:

UNCONSOLIDATED DEPOSITS
ORGANIC SOILS

APRIL 2018.

3 AND 22, RESPECTIVELY.

RGANIC SOILS

GENERALLY BLACK PEAT (PT), FIBROUS TO WEATHERED, WITH MINOR AMOUNTS OF ORGANIC SILT (OL) AND/OR CLAY (OH) DEPOSITED IN WETLANDS.

GLACIOLACUSTRINE SEDIMENTS

GENERALLY GRAY OR DARK GRAY SILT AND CLAY (CL, CL-ML, ML), DEPOSITED

IN A GLACIAL LAKE ENVIRONMENT. INCLUDES DISCONTINUOUS LENSES OF GLACIOFLUVIAL SAND AND GRAVEL.

GLACIAL TILL

GENERALLY BROWN OR GRAY SILTY, SANDY DIAMICTON (SM, GM, ML) DEPOSITED BY OR FROM GLACIAL ICE AS BASAL TILL. INCLUDES DISCONTINUOUS LENSES OF SAND AND SILT/CLAY. TWO TILL UNITS MAY BE PRESENT, INCLUDING THE HORICON MEMBER OF THE HOLY HILL FORMATION AND AN OLDER TILL THAT IS DENSE AND GRAYER IN COLOR. THE LOWER TILL IN SOME LOCATIONS INCLUDES WEATHERED SHALE BEDROCK.

GLACIOFLUVIAL SEDIMENTS

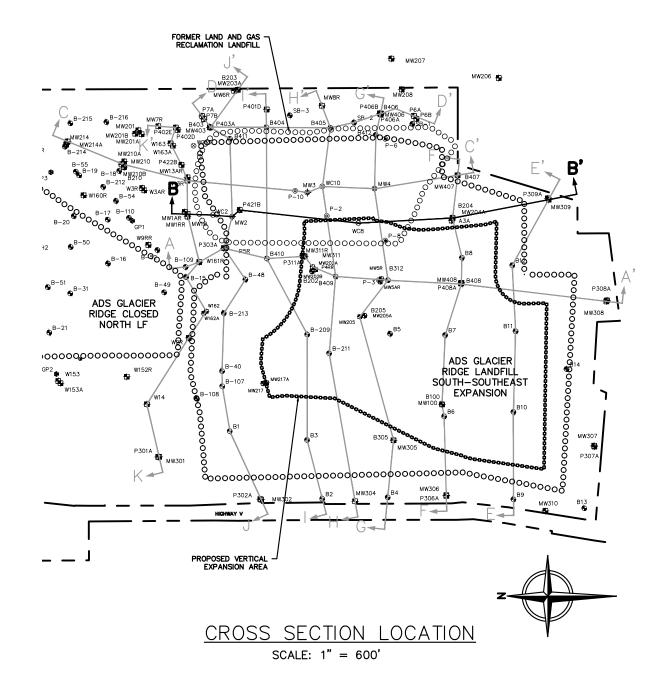
GENERALLY GRAY SAND AND GRAVEL (GP-GM, SP-SM, SW, GW) DEPOSITED BY GLACIAL MELTWATER. INCLUDES DISCONTINUOUS LENSES OF SILT/CLAY.

SHALE - MAQUOKETA FORMATION

GREENISH GRAY SHALE WITH SILTY DOLOMITIC BEDS. CLAY COMPOSITION IS PRIMARILY ILLITE. LATE ORDOVICIAN AGE.

DOLOMITE - SINNIPEE GROUP

WHITE TO LIGHT GRAY MASSIVE DOLOMITE AND SHALY DOLOMITE; WITH CHERT. MIDDLE ORDOVICIAN AGE.



 
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 DATE
 DESCRIPTION
 DWN BY
 DES BY
 CHK BY
 APP BY

 DATE OF ISSUE 9/14/2018
 DRAWN BY
 SSW
 CHECKED BY
 JCO

 APPROVED BY
 MJT



ADVANCED DISPOSAL SERVICES
GLACIER RIDGE LANDFILL
DODGE COUNTY, WISCONSIN
FEASIBILITY REPORT
SOUTH - SOUTHEAST VERTICAL EXPANSION
GEOLOGIC & POTENTIOMETRIC CROSS SECTION B-B'

SHEET NO.

7

PROJECT NO.

180250